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Evaluation Protocol Designed for Teachers by Teachers.

Version 3c.

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ABSTRACT

This protocol for computer software evaluation was developed as part of the SchoolNet Plus Software Review Project which was facilitated by the Eisenhower National Clearinghouse for Mathematics and Science Education (ENC). The protocol includes a software profile, general software evaluation, subject-specific software evaluation, summary comments, and an evaluator profile. The organization of the protocol takes the form of a rubric with a one through five scale. The scoring system enables the protocol to be tailored to a specific subject. (DDR)



Ohio SchoolNet Plus Learning Through Software

A Software Evaluation Protocol Designed For Teachers By Teachers

Version 3c - July 18, 1997

The initial version of this protocol was developed by teachers of the Reynoldsburg City School District, Reynoldsburg, Ohio.

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This protocol was developed as part of the SchoolNet Plus Software Review Project (ENC/SSRP), facilitated by the Eisenhower National Clearinghouse for Mathematics and Science Education (ENC), and funded by the SchoolNet Plus Project, Ohio Department of Education. Special assistance was provided by the Reynoldsburg City Schools (Version 1 development) and Instructional Technology Services of Central Ohio (Version 3 Development). Project Coordinator: Todd Fennimore, Eisenhower National Clearinghouse.

To make best use of this protocol, it is important to be familiar with and make reference to the appropriate national and state standards and guidelines.

Language Arts: Standards for the English Language Arts (1996), International Reading Association &

the National Council of Teachers of English

Model Competency-Based Language Arts Program (1996), Ohio Department of Education

Mathematics: Curriculum and Evaluation Standards (1989), National Council of Teachers of Mathematics

Model Competency-Based Mathematics Program (1990?), Ohio Department of Education

Science: National Science Education Standards (1995), National Research Council

Science: Ohio's Model Competency-Based Program (1994), Ohio Department of Education

Social Studies: Curriculum Standards for Social Studies: Expectations of Excellence (1994), National Council for the Social Studies

Social Studies: Ohio's Model Competency-Based Program (1994), Ohio Department of Education



Part I: Software Profile

| Title of Software: | | | | | _ | _ | | | |
|---|---|---|---|-------------------|--------------------------------------|---|---|---|----------------|
| Version: | | | | | | | | | |
| Publisher: | | | | | | | | | |
| ENC-Number: | | | F | REC-Nun | nber: | | | | |
| Platform (Circle): | Apple II | Mac | Dos | Windo | ows 3.1 | Windows 9 | 5 Other | | |
| Media (Circle): | Floppy Disk | CD-ROM | I Laserdisc | Vidoet | ape | Other | | _ | |
| Primary Subject Focus (| circle one): | | | | | | | | |
| Mathematics | Science | ce | Language A | rts | Soci | al Studies | | | |
| Additional Subjects Add | ressed (circle all | that apply) | : | | | | | | |
| Mathematics | Science | Language A | Arts Soc | cial Studi | es Ot | her: | | | |
| If there is more than one | subject present i | n the packa | ige, are the su | bjects pre | esented (C | Check one): | | | |
| in an interc | disciplinary (but i | not integrat | ed) fashion? | as a | ın integra | ted whole? | | | |
| and say | n integrated materials, something like "this se oject areas, but that co | ction is Math a | and this section is | Language A | rts." Interd | isciplinary materi | ot point to a give als have signific | en section of the ma | aterials or |
| | does the level (gr ge should be used | | reported by t | he softwa | are publis | her accurately | y reflect the | level at which | the |
| 1 | . 2 | | 3 _ | | | 4 | | 5 | _ |
| The grade or age levels reported by the publisher appear to be inaccurate | The grade or age levels by the publisher are tru some of the grade l | e for only | he grade or age level are appropria | | are appropr | or age levels reporte iate, but the softwar ed for a wider range e or age levels | of are appropriate of could b | or age levels reported riate, but the software be used flexibly for ents at any level | |
| At what grade l | levels is it most a | ppropriate (| to use this soft | tware pac | kage? (ci | rcle all that a | pply; cluster | r as appropriate | e): |
| Pre K K | 1 2 | 3 | 4 5 | 6 | 7 | 8 | 9 10 | 11 | 12 |
| 2. This software c | an be used for (cl | neck all tha | t apply): | | | | | | |
| Remediation/Revie Tutoring Assessment Simulation Demonstration | En Ga Co | ill and practichment iming blaborative icrocomput | | _ I _ I _ F | nformation struction Problem s | | esource | record-keeping | g |
| Authoring (e.g., dr | | | | | Other | | . | | |
| | does the software | | | students | to collect | , analyze, im | port, and ma | anipulate text, | |
| 1 | 2 | | 3 | | | 4 | | 5 | |
| No tools are provided. | Only a couple of too provided and they funct or in a very limited | ion poorly | Some tools are prov generally function appropriate fash | n in an | be access Suggestion | are available and ca sed at certain times. ons for their use are provided. | accessib progra thoroug | sive tools are fully ele at all times in the am and their use is early and effectively ed into the program. | |

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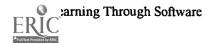
| 4. | If the software p | provides such tools, wha | at features are available in | the tools included (check a | all that apply): | | | |
|-----------------------------|--|--|---|---|--|--|--|--|
| _ W _ Sp _ Da _ Pr | roductivity _ Word processing _ Spreadsheet _ Database _ Presentation _ Other Media _ Multimedia _ authoring _ Image capture _ Image processor _ Other Other | | Online forums Online | Information Resources _ Raw databases _ Pre-processed databases _ Encyclopedia or compendia _Other | Analysis _ Text analysis _ Statistical analysi _ Graphing utilities _Other | | | |
| 5. | This package is | designed to be used with | th (circle all that apply): | Individual students Sma | all Groups Whole classes | | | |
| 6. | | | de effective teaching and lekage into the curriculum? | earning guides and other s | upplemental materials to | | | |
| | 1 | 2 | 3 | 4 | 5 | | | |
| | s are provided, or guides ided are ineffective | Some guides are provided, though they are of minimal help or use | | Guides are effective in helping teachers integrate the software package into the curriculum | Highly effective guides provide extensive and high quality resources for integration | | | |
| | Please check all | the types of supplemen | ital materials included in the | he software package: | | | | |
| | Work | sheets | Links to related Web b | pased Examples of | f how the | | | |
| | | ionary/Thesaurus | projects | product may | | | | |
| | | • | Audio Tapes | Assessment Guides | | | | |
| | Grap | | Classroom activities | Databases | | | | |
| | Templates for product | | | Teachers guides and Other | | | | |
| | crea | ation | suggestions | | | | | |
| 7. | The predicted le | evel of interest of studer | nts in this software is: | Low | Moderate High | | | |
| 8. | Is security neces | ssary to protect student | confidentiality and/or main | ntain data integrity? Ye | s No | | | |
| | | | | curity for the sections of the | ne software package designe ment information? | | | |
| | | • | 2 | 4 | E | | | |
| No se | curity is provided for | 2 With minimal effort, a student | Modest security is provided but | 4 Adequate security is provided for [| Security systems provided are | | | |
| for teac | of the software intended hers only or security is easily breached | could access teacher-only information or otherwise breach the security of the software | the security could be overcome by a determined student | most purposes; very few students could overcome the security provisions | highly effective and cannot be overcome by students | | | |
| 9. | This package in switch, etc.)? | acorporates special featu | res that support adaptive/a | assistive technologies (spee | ch synthesizing, sip-and-pu | | | |
| | Yes | No Insufficient | Information | | | | | |
| | | Notes: | | | | | | |
| | | | | | | | | |
| 10. | This package is | known to work with ad | aptive/assistive technologi | es run in conjunction with | but not part of the package | | | |
| | Yes | No | Insufficient Informat | ion | | | | |
| | Notes: | | | | | | | |
| 11. | Is this package | free of stereotypes? Con | nsider the following: | | | | | |
| | | | _ | | | | | |
| | a. Are females | represented in lead and | professional roles as frequ | ently as males? Yes | s No Not applicable | | | |

earning Through Software

b. Are non-whites portrayed in lead and professional roles frequently? Yes No Not applicable

c. Is a diversity of cultural traditions and practices represented in a positive fashion? Not applicable Yes No

d. Are individuals with physical impairments represented in a positive fashion? Yes No Not applicable



Part II: General Software Evaluation

A. How are ideas developed as the student interacts with the software?

1. To what extent does the software emphasize the central concepts and big ideas of disciplines?

1 2 3 4 5

Central concepts and big ideas are not addressed or are defined in inappropriate or vague terms.

A few central concepts and big ideas are presented.

Some central concepts and big ideas are presented.

ideas are presented.

Some central concepts and big ideas are lear and well defined.

All concepts and big ideas are clear and well defined.

2. To what extent does the software make meaningful connections among ideas within and/or across disciplines?

5 2 In some instances, several Meaningful connections are made Strong connections are made Focus is confined to one topic There are occasional connections among many of the concepts or with other concepts and/or concepts are connected and/or among multiple concepts and area. disciplines. multidisciplinary perspectives disciplines presented. across multiple disciplines. used

3. To what extent does the software allow students to decide among challenging options with multiple paths?

1 2 3 4 5

Only simple tasks with one path are provided.

Tasks are relatively simple.

Tasks are relatively simple.

Tasks are relatively simple.

Some tasks are moderately challenging and offer more than one path.

Opportunities are provided to pursue relatively challenging tasks with different strategies.

4. To what extent does the software present ideas that can be transferred to other learning contexts (e.g., written work, classroom activities, and projects)?

2 5 Concepts transfer fluently to a The software presents some Students often use the concepts There is no connection between Concepts transfer to few learning concepts that transfer to different diversity of student learning concepts presented in the contexts. that they learn in working with software and other student learning contexts. the software in other learning contexts. learning contexts. contexts.

5. To what extent does the software foster the use of critical thinking processes to enhance understanding?

1 2 3 4 5

Focus is on drill and practice.

Carefully structured situations are used to learn isolated concepts.

Carefully structured situations are used to learn isolated concepts.

Well-defined situations focus on mid-level concepts

mid-level concepts

Some situations require an understanding of broad concepts to interpret and address them.

Open-ended problem-solving processes are used to discover and explore higher-level concepts.

B. How well does the software engage students in negotiating meaning, constructing understanding, conducting inquiry, or solving problems?

1. To what extent does the software present authentic tasks (i.e. application of skills to real-world situations, questions, issues, conflicts, dilemmas, and problems)?

Tasks reflect real-life situations Tasks are based on real-life Tasks are based on real-life Situations are contrived and do Tasks are based on situations that not reflect real-life experiences. make some reference to real-life situations but applications are situations and offer some and are used to initiate a wide experiences. limited. applications that lead to viable range of thoughtful approaches or results. applications that lead to viable results

2. To what extent does the software allow for varied approaches to learning or styles of learning (linguistic, logical-mathematical, visual-spatial, musical, interpersonal, intrapersonal, bodily kinesthetic, etc.)?

1 2 3 4 5

One approach to learning is followed.

One approach is largely followed, but occasionally other approaches are used. Some varied approaches to learning are used.

Learners are introduced to many different approaches to learning Learners are effectively engaged by using diverse approaches to introduce concepts and promote higher-level thinking

3. To what extent does the software engage learners in using various forms of representation and expression?

1

Little or no opportunity is provided to use more than one form of representation or expression.

2

Opportunities to respond in more than one way are presented, but they are fairly rote. 3

Opportunities to respond in more than one way are presented, but the application is cumbersome or limited. 4

Learners are given some opportunity to demonstrate their knowledge using different forms of media and formats.

5

Learners are given rich and varied opportunities to demonstrate their knowledge using many forms of media and formats.

4. To what extent does the software enable learners to link ideas in a meaningful sequence?

1

Primary focus is on skills and facts with little or no meaningful sequence and no opportunity for self-directed inquiry. 2

Some sequencing of facts and skills occurs with little opportunity for self-directed inquiry. 3

Concepts are approached as carefully structured sequences of skills and facts with minimal opportunity for self-directed inquiry. 4

Learners have some opportunities to direct their own inquiry using the software to support meaningful concept links. 5

Learners have opportunities to direct their own inquiry using the software to investigate or discover meaningful concept links

5. To what extent does the software encourage and support self-directed learning?

1

Only teacher-directed learning with students as passive recipients of information is promoted. 2

Learning is largely structured and directed.

3

Some self-directed learning is employed but few opportunities for learners to generate their own response are provided. 4

A great deal of self-directed learning is employed with some teacher intervention.

5

Self-directed learning is promoted while encouraging teachers to assume the role of a co-investigator and facilitator.

6. To what extent does the software encourage and support collaborative learning?

1

Software is designed to be used individually.

2

The teacher can adapt the software for some collaborative group activities.

3

Collaboration among learners on teacher-defined tasks is allowed.

4

Some support and encouragement for independent collaboration among learners is provided. 5

Extensive and sustained openended collaboration among learners is supported.

7. To what extent does the software support performance-based assessment by allowing learners to demonstrate their knowledge using tools to gather, interpret, and present information?

1

No tools are provided to support performance-based assessment.

2

Minimal tools for performancebased assessment are provided; most tools are used for preprogrammed responses. 3

Tools are provided that can only be used with data generated by the software. 4

Some opportunity is allowed for learners to gather, present, and interpret their own data in their own way. 4

Tools are provided that can be used with data both generated by the software and independently by learners to demonstrate their knowledge.

C. What are the technical characteristics of the software?

1. To what extent does the software recover from student errors or intentional attempts to disrupt software operation?

1

Software can easily be disrupted and recovers poorly from student errors.

2

Software can be disrupted by student error but recovery is adequate.

3

Software can be disrupted with some effort, but in general is tolerant of student errors and intentional attempts to disrupt operation 4

Software can be disrupted only with significant effort by students

4

Software cannot be disrupted by student errors or attempts to disrupt software operation

2. To what extent can students work independently with the software?

1

Students need direct assistance from others to use the software. Little or no help is provided by the software.

2

Students spend an inordinate amount of time learning how to use the software and frequently require help. Minimal help may be provided by the software. 3

Students can use the software with only occasional help needed.

Help may be provided by the software.

4

Students can use the software independently with little difficulty. Help is provided by the software.

5

Students can easily use the software independently. Extensive help is provided by the software.

arning Through Software

Version 3

| 1 | 2 | 3 | 4 | 5 | |
|---|--|---|---|---|--|
| ftware does not allow students to review/revise prior work. | Software allows students to review/revise prior work only with effort. | Software allows students only limited review / revision of prior work. | Software allows many opportunities for review/ revision of prior work. | Software allows extensive review and revision of prior work as needed. | |
| To what extent | t does the software effective | vely use multimedia (soun | d, graphics, video, etc.)? | | |
| 1 | 2 | 3 | 4 | 5 | |
| Multimedia is not employed. | Multimedia is employed, but primarily used for diversion, entertainment, or reward | Multimedia is employed and of interest, but is not critical to the learning of content | Multimedia is used appropriately to enrich and enliven the content to be learned | Multimedia approaches are creatively employed and integrated as critical elements of the learning experience | |
| To what extent ts, etc.) for use with o | | he teacher to modify the | software parameters (set d | lifficulty levels, input w | |
| 4 | • | 2 | 4 | 5 | |
| eacher cannot modify software parameters. | Only limited teacher modifications are available. | Teachers can modify some parameters with considerable effort. | Teachers can modify some software parameters easily. | Teacher can easily and extensively modify the software parameters. | |
| To what extent | does the software have a | n easy installation process | \$? | | |
| 1 | 2 | 3 | 4 | 5 | |
| installation was difficult and confusing, and/or was unsuccessful on one or more attempts | confusing, and/or was but was successful. | | Little effort was needed to install the package. | Installation is very easy; the user is guided through the process by the software. | |
| | | e assessments that identify 3 Summative information on | y areas where further stud 4 Error patterns are identified and | 5 | |
| d suggest paths for fu | erther development? | 3 | . 4 | 5 Error patterns are diagnosed and feedback targeted at helping learners work through misconceptions underlying these | |
| d suggest paths for fu | 2 Some summative feedback on student performance, but no identification of areas of difficulty or ways to improve is provided. | 3 Summative information on student performance is provided, but offers no suggested paths for | 4 Error patterns are identified and some suggestions for correcting the patterns are provided. | 5 Error patterns are diagnosed and feedback targeted at helping learners work through | |
| I Limited or no summative information on student performance is gathered. To what extent | 2 Some summative feedback on student performance, but no identification of areas of difficulty or ways to improve is provided. | Summative information on student performance is provided, but offers no suggested paths for further development. | 4 Error patterns are identified and some suggestions for correcting the patterns are provided. Errning objectives? | Error patterns are diagnosed and feedback targeted at helping learners work through misconceptions underlying these patterns is provided. | |
| d suggest paths for further than the suggest paths | 2 Some summative feedback on student performance, but no identification of areas of difficulty or ways to improve is provided. | Summative information on student performance is provided, but offers no suggested paths for further development. | 4 Error patterns are identified and some suggestions for correcting the patterns are provided. | Error patterns are diagnosed and feedback targeted at helping learners work through misconceptions underlying these patterns is provided. | |
| 1 Limited or no summative information on student performance is gathered. To what extent 1 here is little or no correlation etween the software and the learning objectives. To what extent | Some summative feedback on student performance, but no identification of areas of difficulty or ways to improve is provided. does the software correlated to the software and the learning objectives. | Summative information on student performance is provided, but offers no suggested paths for further development. Ite with the publisher's least the software represents some of the learning objectives. | Error patterns are identified and some suggestions for correcting the patterns are provided. Error patterns are identified and some suggestions for correcting the patterns are provided. Error patterns are identified and some suggestions for correcting the patterns are provided. 4 The software represents a substantial number of the learning objectives. the an appropriate progress. | 5 Error patterns are diagnosed and feedback targeted at helping learners work through misconceptions underlying these patterns is provided. 5 The software represents all of the learning objectives. | |
| I Limited or no summative information on student performance is gathered. To what extent I here is little or no correlation etween the software and the learning objectives. To what extent the confidence | 2 Some summative feedback on student performance, but no identification of areas of difficulty or ways to improve is provided. 2 There is a weak correlation between the software and the learning objectives. t does the software provided built through skill fluency | Summative information on student performance is provided, but offers no suggested paths for further development. It with the publisher's least the software represents some of the learning objectives. The multiple entry levels with the challenge of integral of the challenge of | Error patterns are identified and some suggestions for correcting the patterns are provided. Error patterns are identified and some suggestions for correcting the patterns are provided. Error patterns are identified and some suggestions for correcting the patterns are provided. 4 The software represents a substantial number of the learning objectives. the an appropriate progress. | Error patterns are diagnosed and feedback targeted at helping learners work through misconceptions underlying these patterns is provided. 5 The software represents all of the learning objectives. | |
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| 1 Limited or no summative information on student performance is gathered. To what extent 1 here is little or no correlation etween the software and the learning objectives. To what extent the confidence 1 Software is set at one level. | Some summative feedback on student performance, but no identification of areas of difficulty or ways to improve is provided. There is a weak correlation between the software and the learning objectives. It does the software provide built through skill fluency | Summative information on student performance is provided, but offers no suggested paths for further development. It with the publisher's least the with the publisher's least the with the publisher's least the software represents some of the learning objectives. It with the publisher's least the learning objectives. It with the challenge of the learning objectives with the challenge of in the learning objectives. Software provides some entry levels, but does not automatically advance the student as they develop skill fluency at each level. | Error patterns are identified and some suggestions for correcting the patterns are provided. Error patterns are identified and some suggestions for correcting the patterns are provided. Error patterns are identified and some suggestions for correcting the patterns are provided. 4 The software represents a substantial number of the learning objectives. the an appropriate progress creased complexity? 4 Software provides several entry levels with some automatic advancement in increasing | Error patterns are diagnosed and feedback targeted at helping learners work through misconceptions underlying these patterns is provided. 5 The software represents all of the learning objectives. Sion in difficulty, balance of the learning objectives increasing complexity with confidence-building reinforcement. | |
| 1 Limited or no summative information on student performance is gathered. To what extent 1 here is little or no correlation etween the software and the learning objectives. To what extent the confidence 1 Software is set at one level. | Some summative feedback on student performance, but no identification of areas of difficulty or ways to improve is provided. There is a weak correlation between the software and the learning objectives. It does the software provide built through skill fluency | Summative information on student performance is provided, but offers no suggested paths for further development. It with the publisher's least the with the publisher's least the with the publisher's least the software represents some of the learning objectives. It with the publisher's least the learning objectives. It with the challenge of the learning objectives with the challenge of in the learning objectives. Software provides some entry levels, but does not automatically advance the student as they develop skill fluency at each level. | Error patterns are identified and some suggestions for correcting the patterns are provided. Errning objectives? 4 The software represents a substantial number of the learning objectives. th an appropriate progress creased complexity? 4 Software provides several entry levels with some automatic advancement in increasing difficulty. | 5 Error patterns are diagnosed and feedback targeted at helping learners work through misconceptions underlying these patterns is provided. 5 The software represents all of the learning objectives. Sion in difficulty, balance of the learning objectives of the learning objectives. | |
| 1 Limited or no summative information on student performance is gathered. To what extent 1 Incre is little or no correlation etween the software and the learning objectives. To what extent the confidence 1 Software is set at one level. To what extent develop? | stricter development? 2 Some summative feedback on student performance, but no identification of areas of difficulty or ways to improve is provided. 2 There is a weak correlation between the software and the learning objectives. 3 4 does the software provide built through skill fluence 2 Software increases in difficulty but is unable to provide multiple entry points. | Summative information on student performance is provided, but offers no suggested paths for further development. It with the publisher's least the with the publisher's least the software represents some of the learning objectives. It with the publisher's least the learning objectives. It with the challenge of interpretable of the learning objectives. Software provides some entry levels, but does not automatically advance the student as they develop skill fluency at each level. | Error patterns are identified and some suggestions for correcting the patterns are provided. Arning objectives? 4 The software represents a substantial number of the learning objectives. th an appropriate progress creased complexity? 4 Software provides several entry levels with some automatic advancement in increasing difficulty. 5 the essential aspects of the some support of the several entry levels with some automatic advancement in increasing difficulty. | Error patterns are diagnosed and feedback targeted at helping learners work through misconceptions underlying these patterns is provided. 5 The software represents all of the learning objectives. 5 Software provides multiple leve entry while effectively balancing increasing complexity with confidence-building reinforcement. | |

The skills to be developed are not defined.

Skills to be developed are merely listed.

Some indication of a breakdown of skills is provided, but models are not.

Some aspects of the skills to be developed are modeled.

All essential aspects of each skill to be developed is clearly modeled.

5. To what extent does the software provide useful feedback to the student?

No feedback is provided to the student.

Some positive reinforcement is given as a result of correct responses.

Along with positive reinforcement, examples are available upon request.

Along with positive reinforcement, some hints or clues are available when requested.

Feedback is appropriately detailed, giving hints, clues, positive reinforcement, and examples on an as-needed basis, monitored by the software

6. To what extent does the software allow students to plan their own learning and check on their understanding (e.g., setting their own goals, choosing their own learning strategies, determining their own pace, learning to assess their own performance)?

No opportunities are provided for learners to plan their own learning or check on their understanding.

Few opportunities are provided for learners to plan their learning and check on their implementation of learning strategies.

Some opportunities are provided for learners to plan their learning and check on their implementation of learning strategies.

Many opportunities are provided for learners to plan their learning and check on their implementation of learning strategies.

The software encourages and supports learners in becoming fully strategic in moving through all phases of a learning cycle.

5

7. To what extent does the software develop memory strategies and/or skills so that problem solving or comprehension become more fluent?

Information is merely presented without providing any aid in the process of memory recall.

2 Some repetition in process is provided for the purpose of requiring a certain degree of memory retention. The memory strategies of selecting key terminology and prioritizing terms are used.

Mnemonic aids such as clustering and image association are modeled to enhance memorization skills. Links among memorization strategies, comprehension, and problem solving are provided.

Part III: Subject Specific Software Evaluation

Standard Number

Source:

A. What is the correlation of the software content with the relevant standards?

Use the space below to list key standards with which the software aligns. Refer to the Standards for the English Language Arts, the Curriculum Standards for the Social Studies, the Curriculum and Evaluation Standards of the National Council of Teachers of Mathematics, the National Science Education Standards from the National Research Council, and the Ohio Competency-Based Curriculum Models for Language Arts, Social Studies, Mathematics, and Science, K-4.

Standard Description or Text

Also, rank the level to which the package appears to align with the standards identified using the following scale:

Alignment 1 -- Poorly aligned
2 -3 -- Moderately aligned
4 -5 -- Well aligned

| Source: NCSS | Standard Number | Standard Description or Text | Level of Alignment |
|----------------------------------|-----------------|------------------------------|--------------------|
| IRA/NCTEL, | | | |
| NCSS, IRA/NCTEL, NCTM, NRC, Ohio | | | |
| Ono | | | |
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arning Through Software

Level of

Social studies B.

1. To what extent does the software connect learners with primary sources (e.g., interviews, first-person accounts, artifacts), either people or text, in order to obtain authentic and accurate information?

Access to primary source materials is not provided.

2 Limited access to primary source materials is provided.

3 Access to some primary source materials is provided.

Different kinds of primary source materials are accessible.

A wide range of primary sources with authentic and accurate information are provided.

2. To what extent does the software help learners use and think critically about information sources (e.g., printed matter, video, and Internet-based information)?

1

Only one type of information source is provided (e.g., textbooks, reference materials).

A limited range of information is presented without asking learners to use or think critically about it.

A range of information sources is available for learners to use but only occasionally are they asked to think critically about them.

A range of information sources is available for learners to use and learners are asked to think critically about them.

Learners are asked to use and think critically about a wide range of information sources

To what extent does the software provide opportunities for learners to use the tools and resources of a social scientist (for 3. example, do history like a historian, study culture like an anthropologist)?

Learners are not offered opportunities to participate in constructing knowledge using the tools of social scientists.

Learners may indirectly learn about social science methods from dealing with social studies knowledge, but they are not engaged in using those methods. Learners are provided with some information that allows them to analyze and interpret social studies knowledge that is presented.

Learners are provided opportunities to use different tools, methods, and information sources to construct their own interpretations and meanings

Learners are provided opportunities to use a range of methodologies and multiple ways of representing knowledge, and to reflect on their use of methods and presentation of results.

To what extent does the software help learners understand their roles and roles of others as citizens in a democracy and 4. as participants in a global community?

There are no opportunities to play roles or participate in decision making that helps learners to understand democratic processes.

2

There is some description of democratic processes and procedures, but no direct participation in democratic processes.

3

Democratic processes are discussed and some opportunities for modeling, simulating, and carrying out democratic processes are provided.

Democratic processes are discussed and there are many individual opportunities to participate in processes that involve local, national, and global

Learners are given opportunities to play roles that they help to define and to participate in decision making analogous to participatory democracy in local, national, and global issues

To what extent does the software help learners become aware of opportunities to make changes in addressing personal 5. and larger societal issues?

Ways in which topics and issues might impact on personal and societal spheres of action are not considered.

2

Ways in which topics might affect spheres of action are considered but roles and responsibilities are highly prescribed and stereotypic.

Learners are provided with some opportunities to think about how topics might impact on their choices, but there are few opportunities to apply that knowledge

Ways to plan and make changes are presented, and there are various opportunities to practice using that knowledge.

Learners can plan, negotiate, implement, and evaluate changes related to personal, societal, and global issues.

To what extent, either in the process or the content, does the software help learners develop interpersonal knowledge 6. and skills?

Opportunities for developing social interaction skills or for understanding social interactions are not provided.

2

Information about social interaction skills, but with no opportunity to use them is provided.

Information about social interaction skills is provided with some opportunities to use these in social interactions.

Opportunities to learn about social interaction skills are provided and various opportunities to use them in social interactions.

Various ways that learners can work together while doing the program and/or the ways to develop skills around creating and managing productive social relationships are provided

7. To what extent does the software help learners understand and reflect on the values and beliefs underlying cultural practices, including their own?

Only one perspective related to values, persons, and/or historical accounts is provided.

More than one perspective related to values, persons, or historical accounts are provided, but they are stereotypic in character.

2

Learners are provided with access to multiple points of view but there is little connection made to the learners' own values, beliefs, and culture. Learners have access to multiple points of view that help them understand different values, perspectives, and/or historical accounts. Learners consider multiple and diverse perspectives, especially in helping them understand the world views, values, and belief systems of other individuals, past and present, in relation to their own values, beliefs, and cultural context.

B. Language arts

1. To what extent does the software provide opportunities to move back and forth between understanding/interpreting text and producing text?

No opportunities for learners to move back and forth between understanding/interpreting text and producing text are provided.

Suggestions are provided for learners to use their understandings of text as a prompt for production and to use their productions to gain insights into interpretations.

2

Adequate opportunities are provided for learners to use their understandings of texts to prompt production, and to use production of text to enrich interpretations.

3

Many opportunities are provided to move back and forth between understanding/ interpreting text and producing text.

Rich and extensive opportunities are provided to weave together the processes of interpretation, understanding, and production of texts. These are experienced as relatively seamless transitions by the user.

Reading/Understanding

O This Section Not Applicable

1. To what extent does the software help guide the reader/listener/interpreter through activities that foster comprehension and stimulate interpretations before, during, and after the interaction with the text/product (viz., printed communications; oral communications, such as speeches and conversations; and visual communications, such as film and video)?

No help in preparing for, monitoring, or debriefing on learners' attempts at interpretation is provided. 2 Limited assistance for learners is provided in interpreting text before, during, and after an encounter with the text/product.

Assistance for learners is provided before, during, and after the attempt at interpretation, though it is rudimentary.

3

Adequate assistance is provided to the learner before, during, and after an attempt at interpretation. Help and structure is provided to learners in developing and implementing strategies to enhance comprehension and stimulate interpretations before, during, and after interaction with the text/product.

1. To what extent does the software help the reader/listener/interpreter comprehend and recognize useful and accurate patterns and structures of the text/product?

No assistance in comprehending and recognizing patterns and structures of text is provided. Some opportunities in comprehending and recognizing patterns and structures of text are provided.

Many opportunities in comprehending and recognizing patterns and structures of text are provided.

The structural aspects of the text/product are highlighted.

Learner are engaged in using a wide range of strategies, patterns, and structures.

5

1. To what extent does the software incorporate supports and cues that help the reader/listener/interpreter monitor and refine understandings?

No supports or cues for monitoring and refining understandings are provided.

2
Some supports and cues
monitoring and refining
understandings are provided.

Adequate supports and cues are provided for checking and revising understandings. Many opportunities to monitor and refine understandings are provided. Learner build increasingly robust and accurate understandings of the text/product.

5

To what extent does the software reflect the accurate and multifaceted relationships between spoken language and 5. written language? 2 Decoding words in isolation letter Recognizing word patterns using Both decoding of words letter by Beginning relationships between A balance between spoken by letter is emphasized. decoding skills is emphasized. letter and word pattern decoding spoken language and written language and written language is skills are explored. language are explored. reflected Writing/Production O This Section Not Applicable 5. To what extent does the software help the writer/speaker/creator set purposes for communication based on anticipated audience and goals for the communication? 2 3 5 The learner is prompted to set Many opportunities to set The learner is engaged in thinking No prompts to set purposes for The purpose of the communication are provided. communication is indicated. purposes for communication. purposes for communication are critically about crafting text based provided. on the audience and goals for communication. 5. To what extent does the software provide structures and aids for organizing the learner's work? 2 3 Extensive advice and feedback on No assistance is provided for Suggestions are made for Tools and structures are provided Prompts to help the learner think organizing the learner's work. organizing the learner's work. for organizing the learner's work. through how best to organize the organization of work, as well their work are provided. as a full suite of tools for structuring a text/product are provided. 5. To what extent does the software provide tools for refining and revising work based on accepted forms within a relevant community of language users (e.g., creative writers, nonfiction writers, general public using standard English, technical or specialist audiences, filmmakers/videographers, song writers)? 2 No tools for refining or revising Some criteria relevant to Adequate information and Some tools for articulating and A full suite of tools is provided for students to articulate and use evaluating work done by the resources for understanding the using criteria for evaluating their work are provided. work based on accepted forms in criteria for evaluating their work learner are presented. criteria applicable to their work a language community are based on accepted forms in a are provided. provided. language community. D. Mathematics and science To what extent does the software present accurate and up-to-date information in mathematics and/or science? 1. 3 Information is accurate and Information is generally Information is inaccurate or out-Information is occasionally Information is accurate, current, inaccurate and/or out-of-date of-date more often than not. inaccurate and out-of-date with a few exceptions. current 2. To what extent does the software promote cross-disciplinary connections between mathematics and science? 2 Occasional, rather superficial Strong connections are made Focus is on discrete concepts In some instances, several Meaningful connections are made among multiple concepts and mentions are made to connections concepts are connected and/or among many of the concepts or confined to one topic area. multidisciplinary perspectives disciplines presented across multiple disciplines with other concepts and/or disciplines used

To what extent does the software use problem-solving processes to help learners build their conceptual understanding in 3. mathematics and/or science? Well-defined problems focus on Some problems require an Open-ended problem solving Focus is on drill and practice Carefully structured problems are processes are used to discover understanding of broad concepts around rote computation and used to learn isolated facts and mid-level concepts. to interpret and address them. and explore higher level factual recall. procedures. concepts. To what extent does the software motivate and enable learners to construct their own model or simulation in the course 4. of problem solving? 2 3 Learners are allowed some Extensive use is made of models Learners are given tools and Some use of models or Learners are not given the or simulations, and there are support for designing their own simulations is made, but little or flexibility in developing or opportunity to develop models or modifying limited models or meaningful opportunities to models or simulations to solve simulations. no opportunity is provided for problems on their own. modification or experimentation. simulations generated by the modify or experiment with these software. models or simulations. 5. To what extent does the software present authentic problems to be solved? 5 2 No problems are presented or Problems are based on real-life Problems are based on real-life Some problems make reference Problems are based on real-life to real-life situations or situations but are constrained due situations and allow some situations and evoke varied and problems are contrived and do not to the approaches built into the different approaches to solutions. thoughtful approaches to reflect real-life situations. applications. solutions software To what extent does the software engage learners in inquiry around open-ended problems? 6. 4 2 3 No opportunities for open-ended Engagement occurs through Engagement occurs through Engagement largely occurs Questions or problems are through sustained inquiry using inquiry are provided. presented, but they usually only solving well-defined, but solving some problems requiring moderately challenging, problems interpretation and a plan of attack. significant concepts. involve retrieving facts or doing simple computation. in step-by-step fashion

To what extent does the software provide tools integrated into the program which allow learners to collect, analyze, and 7. manipulate data?

No tools are provided or the tools Only a couple of tools are Some tools are provided and Many tools are available and can Extensive tools are fully provided and they function poorly generally function in an be accessed at certain times. accessible at all times in the that are provided do not function appropriate fashion. Suggestions for their use are program and their use is or in a very limited way. well. thoroughly and effectively provided. integrated into the program

Part IV: Summary Comments

Please provide a brief statement of the strengths and weaknesses you see in this software product. Focus your comments on things that you feel would assist another teacher in determining if this package is right for use in their class with their students. Also, if you have used this software with students, please share your experiences here. Use the back of this page as necessary.

Part V: Evaluator Profile

Please note that this SSRP evaluation will not be made available to other educators unless the Evaluator Profile is completed. Contact information (name, address, phone numbers, and e-mail address) will be kept confidential unless SSRP is given permission to release that information. To give such permission, you must place your initials in the space next to the phrase "You may publish ...".

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U.S. DEPARTMENT OF EDUCATION

Office of Educational Research and Improvement (OERI) Educational Resources Information Center (ERIC)



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